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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,121	09/11/2003	Esa Maatta	915-006.024	6833

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WARE FRESSOLA VAN DER SLUYS &
ADOLPHSON, LLP
BRADFORD GREEN BUILDING 5
755 MAIN STREET, P O BOX 224
MONROE, CT 06468

EXAMINER

HARRIS, ANTON B

ART UNIT	PAPER NUMBER
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2831

DATE MAILED: 04/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/660,121	Applicant(s) MAATTA ET AL.	
	Examiner Anton B Harris	Art Unit 2831	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>16 January 2004</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyagawa et al. (5,594,619).

Regarding claim 1, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses a hinge cover mechanism comprising:

a hinge cover component 25 comprising at least first pivot means 35, which cooperate with second casing part 29 to allow movement of said hinge cover component 25 about first cover pivot axis C and second pivot means 38 which cooperate with first casing part 25 to allow both linear movement of said hinge cover component 25 and movement of said hinge cover component 25 about second cover pivot axis D.

Regarding claims 2 and 13, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses that during a pivot movement of said first casing part 25 with respect to said second casing part 29 about said hinge pivot axis C there are defined two movement ranges:

a first range in which said hinge cover component 25 substantially moves linearly and

a second range in which said hinge cover component 25 moves linearly backwards and performs a tilting movement by which a bottom part of the hinge cover component 25 is lowered

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to touch a supporting surface and by which said first casing part 25 is lifted with respect to said supporting surface.

Regarding claims 3 and 14, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses that a hinge pivot axis C, said first cover 25 pivot axis and said second cover 29 pivot axis are separate axes being spaced apart from each other at predefined distances, wherein said distance between said hinge pivot axis C and said first cover 25 pivot axis is substantially shorter than said distance between said hinge pivot C axis and said second cover 29 pivot axis.

Regarding claims 4 and 15, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses that a substantially linear movement is substantially parallel to a resting surface of said first casing part 25.

Regarding claims 5 and 16, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses that a substantially linear movement is guided by groove elements 39.

Regarding claims 6 and 17, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses that groove elements 39 are elongated holes dimensioned to guide said second pivot means 38 and to allow linear and pivot movement thereof. See figures 8A-11B.

Regarding claims 7 and 18, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses that a tilting movement comprises an inclination of said hinge cover component 25 at a cover inclination angle and an inclination of said first casing part 29 at a casing inclination angle, wherein said cover 25 inclination angle and said casing 29 inclination angle are contra-inclining angles.

Regarding claims 8 and 19, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses that a hinge cover component 25 substantially moves linearly in a direction away from said first

casing part 29 in said first movement range and said hinge cover component 25 moves linearly backwards in a direction towards said first casing part 29 in said second movement range.

Regarding claims 9 and 20, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses that a first casing part 29 is lifted at a distance substantially beneath said second cover pivot axis D.

Regarding claims 10 and 21, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses a locking mechanism 26 that is at least adapted to prevent said folding casing from accidental opening. See figure 6B.

Regarding claims 11 and 22, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses that a hinge cover component 25 serves to protect at least electric conduction means routed through said hinge mechanism 37 and connecting electric components enclosed in the casing parts 25, 29; wherein the protection is maintained during any pivot movement.

Regarding claim 12, Miyagawa et al. (col. 6, line 59- col. 9 line 10) discloses an electric device comprising:

a hinge cover component 25 comprising at least first pivot means 35, which cooperate with second casing part 29 to allow movement of said hinge cover component 25 about first cover 25 pivot axis C and second pivot means 38, which cooperate with first casing part 25 to allow both linear movement of said hinge cover component 25 and movement of said hinge cover component 25 about second cover pivot axis D.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Van Brocklin et al. U.S. Patent No. 6,266,241 B1 discloses a hinge cover mechanism including groove elements, two casings, and two pivot means.

Chihara et al. U.S. Patent No. 4,960,256 discloses a first hinge means, a second hinge means, a guide slot, and two casings.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anton B Harris whose telephone number is (571) 272-1976. The examiner can normally be reached on weekdays from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Dean Reichard, can be reached on (571) 272-2800 ext 31. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

abh

4/16/04

A handwritten signature in black ink, appearing to read "Anthony Dinkins". The signature is fluid and cursive, with the first name "Anthony" written in a larger, more prominent script than the last name "Dinkins".

ANTHONY DINKINS
PRIMARY EXAMINER